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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of the claims in the application:

Listing of Claims:

1. (Currently Amended) A coated substrate, comprising:
an antitarnish layer deposited on a substrate; and
an outer layer deposited onto said antitarnish layer,
said outer layer comprising tin or tin alloys having at
least 50% by weight tin, and wherein said antitarnish layer
is present in an amount effective to prevent tarnishing of
said outer layer and wherein said antitarnish layer has a
thickness of ~~less than~~ between 5 and 1000 Angstroms.
2. (Previously Presented) The coated substrate of claim 1,
wherein said antitarnish layer comprises an antitarnish
agent selected from the group consisting of zinc, chromium,
indium, phosphorous, manganese, boron, thallium, calcium,
silver, gold, platinum, palladium, and combinations
thereof.
- 3-4. (Cancelled).

5. (Currently Amended) The coated substrate of claim 4 1,
wherein said antitarnish layer has a thickness of between 5
and 500 Angstroms.
6. (Original) The coated substrate of claim 1, wherein said
outer layer has a thickness of between 10 and 1000
microinches.
7. (Original) The coated substrate of claim 6, wherein said
outer layer has a thickness of between 10 to 400
microinches.
8. (Original) The coated substrate of claim 1, further
comprising a barrier layer disposed between said substrate
and said antitarnish layer.
9. (Previously Presented) The coated substrate of claim 8,
wherein said barrier layer comprises an element selected
from the group consisting of nickel, tin, iron, cobalt,
copper, manganese, and combinations thereof.
10. (Original) The coated substrate of claim 1, wherein said
outer layer further comprises a friction-reducing material
selected from the group consisting of polyimide, polyamide,

polytetrafluoroethylene, silicon carbide, aluminum oxide, tungsten carbide, molybdenum disulfide, and combinations thereof.

11. (Cancelled) .

12. (Original) The coated substrate of claim 1, wherein said substrate comprises copper or a copper alloy.

13. (Currently Amended) A coated substrate comprising a coating on a substrate, said coating having a first surface and a second surface, said second surface positioned adjacent to said substrate, and comprising:

a metal layer comprising tin or tin alloys having at least 50% by weight tin; and

a nonzero concentration gradient of antitarnish agent diffused into said metal layer, said nonzero concentration gradient having the highest concentration of said antitarnish agent at said second surface, said antitarnish agent present in said coating in an amount effective to prevent tarnishing of said metal layer;

and wherein said coating has a thickness between 10 microinches and 1000 microinches; and

wherein said coating further comprises a friction-reducing material that imparts said coating with a coefficient of friction in the range of from 0.1 to 0.3, said friction-reducing material selected from the group consisting of polyimide, polyamide, polytetrafluoroethylene, silicon carbide, aluminum oxide, tungsten carbide, molybdenum disulfide, and combinations thereof.

14. (Previously Presented) The coated substrate claim 13, wherein said antitarnish agent is selected from the group consisting of zinc, chromium, indium, phosphorous, manganese, boron, thallium, calcium, silver, gold, platinum, palladium, and combinations thereof.
15. (Original) The coated substrate claim 13, wherein said coating has a thickness of between 10 to 400 microinches.
16. (Original) The coated substrate claim 13, wherein the amount of antitarnish agent in said coating ranges from 0.001 to 5 wt%, based on the total weight of said coating.

17. (Original) The coated substrate claim 16, wherein the amount of antitarnish agent in said coating ranges from 0.005 to 3 wt%, based on the total weight of said coating.
18. (Original) The coated substrate claim 17, wherein the amount of antitarnish agent in said coating ranges from 0.01 to 2 wt%, based on the total weight of said coating.
19. (Original) The coated substrate claim 13, further comprising a barrier layer disposed between said second surface and said substrate.
20. (Previously presented) The coated substrate claim 19, wherein said barrier layer comprises an element selected from the group consisting of nickel, tin, iron, cobalt, copper, manganese, and combinations thereof.
- 21-22. (Cancelled).
23. (Original) The coated substrate claim 13, wherein said substrate comprises copper or copper alloy.
- 24-50. (Cancelled).